

— 1888. October 28, 1895.

ACT DATA

Presentation: Basic Image: Simple

## French



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PUBLISHED INTERNATIONAL APPLICATION

(11)	WO 98/13071	(13)	A1		
(21)	PCT/US97/17044				
(22)	24 September 1997 (24.09.1997)				
(25)	ENG	(26)	ENG	(33)	US
(31)	60/026,641	(32)	24 September 1996 (24.09.1996)		
(43)	02 April 1998 (02.04.1998)				
(51) <sup>6</sup>	A61K 48/00, 49/00, C12Q 1/68, 1/70, C12N 15/85, 15/86				
(54)	GENE THERAPY FOR INHIBITION OF ANGIOGENESIS				
(63)	24 September 1996 (24.09.1996) 60/026,641 US (CIP)				
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(81)	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GB, HU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TI, TM, TR, TT, UA, US, UZ, VN, YU ; AP (GH, KE, LS, MW, SD, SZ, UG, ZW) ; EA (AM, AZ, BY, KG, KZ, MD, RU, TI, TM) ; EP (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IL, LU, MC, NL, PT, SE) ; OA (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG)				

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## Abstract

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**Abstract**

The present invention relates to methods of *gene therapy* for inhibiting angiogenesis associated with solid tumor growth, tumor metastasis, inflammation, psoriasis, rheumatoid arthritis, hemangiomas, diabetic retinopathy, angiofibromas, and macular degeneration. *Gene therapy* methodology is disclosed for inhibition of primary tumor growth and metastasis by gene transfer of a nucleotide sequence encoding a soluble form of a VEGF<sup>1</sup> tyrosine kinase receptor to a mammalian host. The transferred nucleotide sequence encodes a soluble form of a VEGF<sup>1</sup> tyrosine kinase receptor which binds to VEGF<sup>1</sup> in extracellular regions adjacent to the primary tumor and transcribes mRNA and a soluble receptor protein which binds to VEGF<sup>1</sup> in extracellular regions adjacent to the primary tumor and vascular endothelial cells. Formation of a sVEGF<sup>1</sup>/VEGF<sup>1</sup> complex will prevent binding of VEGF<sup>1</sup> to the KDR and FLT-1 tyrosine kinase receptors, antagonizing transduction of the normal intracellular signals associated with vascular endothelial cell-induced tumor angiogenesis. In addition, expression of a soluble receptor tyrosine kinase may also impart a therapeutic effect by binding either with or without VEGFs to form non-functional heterodimers with full-length VEGF<sup>1</sup>-specific tyrosine kinase receptors and thereby inhibiting the mitogenic and angiogenic activities of VEGFs.

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Received Time Oct. 28, 10:39AM

### Print Time

Oct 28 10:46AM